

# Notice of Allowability

Application No.

10/018,570

Examiner

George Eng

Applicant(s)

PARK, SAN-WOOK

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/8/2005.
2. ☒ The allowed claim(s) is/are 1,2 and 4-9.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

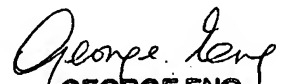
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 20050427.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**GEORGE ENG**  
**PRIMARY EXAMINER**

## **EXAMINER'S AMENDMENT AND STATEMENT OF REASONS FOR ALLOWANCE**

### ***Examiner's Amendment***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Wenye Tan (Reg. No. 55,662) on 4/28/2005.

2. The application has been amended as follows:

Cancel claims 10-23.

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Figure 1, reference character "REPEATER MANAGEMENT SERVER" should be number --161-- instead of "15" in accordance with the specification page 9, line 19. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

### ***Examiner's Statement of Reasons for Allowance***

4. Claims 1-2 and 4-9 are allowed.

5. The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a system and method for managing and operating a remote repeater by supervising and analyzing the repeater's quality in wireless and regular telephone calls in order to enlarge a service area, and providing easily securing exclusive lines between a mother base station and repeaters (i.e., a repeater supervision system comprising a repeater monitoring apparatus being installed in a repeater for collecting electronic waves generated from the repeaters, analyzing the collected electronic waves using a program designated beforehand and transmitting the analyzed results in the form of short messages to a SMS center, the SMS center receiving the analyzed results from the repeater monitoring apparatus and transmitting the analyzed results to a repeater management server, the repeater management server receiving the analyzed results from the SMS center and managing the repeater, and a storage for storing the analyzed results by the repeater management server).

Applicant's independent claim 1 recites, *inter alia*, a repeater monitoring system for enlarging server areas based on a wireless communication network with a structure as defined in the specification (pages 9-17) including a repeater monitoring apparatus for selecting waves transferred from repeaters, and analyzing the waves by using programs, and transmitting analyzed results; an SMS center for receiving the analyzed results from the repeater monitoring apparatus, and transmitting the analyzed results; a repeater management server for receiving the analyzed results from the SMS center and managing a plurality of repeaters; and a storage apparatus for saving the analyzed results received from the repeater management server; wherein the analyzed results comprises at least one selected from the group consisting of an analysis time, an identification of a terminal manufacturing company corresponding to a mobile

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communication company, a telephone exchange identification used by the repeater, a noise measurement, a received message signal strength indicator, a signal-to-interference rate and a transmitted message signal strength indicator. Applicant's independent claim 1 comprises a particular combination of element, which is neither taught nor suggested by the prior art.

Accordingly, Applicant's claims are allowed for these reasons and for the reasons recited by Applicant in Amendment filed 4/8/2005.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Eng whose telephone number is (571) 272-7495. The examiner can normally be reached on Tue-Fri 7:30 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A. Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
George Eng  
Primary Examiner  
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